



United States Patent [19]

Hess

[11] Patent Number: 5,411,466
[45] Date of Patent: May 2, 1995

[54] APPARATUS FOR RESTENOSIS TREATMENT

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[21] Appl. No.: 219,179
[22] Filed: Mar. 28, 1994

Related U.S. Application Data

[63] Continuation of Ser. No. 755,480, Sep. 5, 1991, Pat. No.
5,302,168.
[51] Int. Cl.⁶ A61N 5/00
[52] U.S. Cl. 600/3; 606/7
[58] Field of Search 600/1-8;
606/7

References Cited

U.S. PATENT DOCUMENTS

3,168,092 2/1965 Silverman .
3,324,847 6/1967 Zoumboulis ,
4,202,323 5/1980 Zweig et al .
4,434,788 3/1984 Nakatsugawa .
✓ 4,588,395 5/1986 Lemelson .
4,697,575 10/1987 Horowitz .
4,733,665 3/1988 Palmaz .
4,815,449 3/1989 Horowitz .
4,878,492 11/1989 Sinofsky .
5,019,075 5/1991 Spears .
5,059,166 10/1991 Fischell et al .
5,084,002 -1/1992 Liprie .

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ABSTRACT

[57] Method and apparatus for treatment and post-treatment of the stenosed region of an artery after reduction of the region by angioplasty or other means by applying a radioactive dose to said reduced region of the artery by positioning a radioactive dose to the reduced region is disclosed.

5 Claims, 4 Drawing Sheets

462050 E 206380